User Manual

Introduction

This VIA PCI to USB 2.0 Host Controller card is compliant with the Universal Serial Bus Specification Revision 2.0 and Universal Host Controller Interface Specification for low-speed (1.5Mbps) / full-speed (12Mbps) speed signaling and Enhanced Host Controller Interface Specification for high-speed signaling (480Mbps).

Features

- Using VIA (VT6202 / VT6212) PCI to USB 2.0 Host Controller chip
- Compliant with Universal Serial Bus Specification Revision 2.0
- Compliant with Universal Host Controller Interface Specification for USB Rev 1.1
- Compliant with Enhanced Host Controller Interface Specification for USB Rev 0.95
- 32-bit 33MHz Host Interface compliant to PCI Specification release 2.2
- Supports PCI-Bus Power Management Interface Specification release 1.1
- PCI bus-master access
- PCI multi-function device consists of two UHCI Host Controller cores for full-speed / low-speed signaling and one EHCI Host Controller core for high-speed signaling.
- All downstream forcing ports can handle high-speed (480Mbps), full-speed (12Mbps), and low-speed (1.5Mbps) transaction
- Provides four type 'A' downstream ports for USB device connections
- Full support of real time dynamic insertion and removal of devices
- Supports all USB-compliant peripherals (e.g. keyboard, mouse, monitor, telephone, joystick, etc.)
- Driver support for Windows 98, 98SE, ME, 2000 & XP operating system

Installing the VIA PCI to USB 2.0 Host Controller card

Installing the VIA PCI to USB 2.0 Host Controller card into your computer is a simple process. Please follow these steps:

1. Turn off your computer and all external devices connect to it.
2. Disconnect your computer from the power sources.
3. Open the computer case. Refer to your computer user manual for more details.
4. Find an available PCI slot and remove the slot bracket. Save the bracket screw for later use.
5. Align the VIA PCI to USB 2.0 Host Controller card horizontally with respect to the PCI slot and insert it into the slot firmly and evenly. Take care not to force it into the slot. Once you have properly positioned the VIA PCI to USB 2.0 Host Controller card into the slot, fasten it to the computer case with the bracket screw you have saved.
6. Secure the computer case and switch on your computer.

Installing Windows XP / 2000 driver

Microsoft EHCI drivers for Windows XP / 2000 are not included in this package. You need to download the Windows XP Service Pack 1 (SP1) / Windows 2000 Service Pack 4 (SP4) or above for the Microsoft EHCI drivers. Once you have installed the appropriate Service Pack in your system, Windows will automatically choose the correct driver for your card.

To download Windows XP Service Pack 1

1. Make sure you are connected to the internet.
2. Click **Start** and select **Windows Update**.
3. Windows XP will launch Microsoft Internet Explorer and open the link to Microsoft Windows Update. Click **Scan for updates**.
4. Microsoft Windows Update will list all available updates on the web. At **Critical Updates and Service Packs**, select **Windows XP Service Pack 1** for download.
5. Once Windows XP Service Pack 1 is downloaded and installed into your system, you need to restart Windows XP before the Microsoft EHCI drivers are installed into your system.

To download Windows 2000 Service Pack 4

1. Make sure you are connected to the internet.
2. Click **Start** and select **Windows Update**.
3. Windows 2000 will launch Microsoft Internet Explorer and open the link to Microsoft Windows Update. Click **Scan for updates**.
4. Click **Review and install updates**
5. Scroll up and down the bottom screen to check the components that Microsoft Windows has chosen for you to update. As these components are the most critical components for your system and it is recommended to install all of them immediately. Windows 2000 Service Pack 4 should be included in the list if your system has not updated this component before. Press the **Remove** button against all other components that you do not want to install. Finally, choose **Install Now** to start downloading.
6. Once Windows 2000 Service Pack 4 and other components are downloaded and installed into your system, you need to restart system before the Microsoft EHCI drivers are installed into your system.
7. Repeat **Step 2** until no more component is needed to install

Installing Windows ME/98SE/98 driver

1. Make sure the VIA PCI to USB 2.0 Host Controller card has been installed correctly on your system.
2. If the controller card is installed correctly, a yellow exclamation mark appears next to one of the **VIA Tech 3038 PCI to USB Universal Host Controller item** under **Universal Serial Bus Controllers** in Device Manager.
3. Insert the supplied Driver Installation CD into the CDROM drive.
4. Execute the setup program by double clicking on the **SETUP.EXE** file in **D:\VIA\VT62X2** folder of the Driver Installation CD (Assuming your CDROM drive is Drive D).
5. At the setup program, select **Install USB Driver** and press the **Next** button.
6. Follow the setup program instructions to finish installing the EHCI drivers. Once the drivers are installed, you need to restart your Windows.
7. If you have installed the EHCI drivers correctly, the yellow exclamation mark next to the item in Device Manager described step 2 will be missing and the EHCI driver will be added to **Universal Serial Bus Controllers** in Device Manager.